

**BIOLOGICAL RESOURCES SUPPORTING DOCUMENTATION**

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- **CALIFORNIA NATURAL DIVERSITY DATABASE FORMS**
- **PROJECT BIOLOGISTS – RESUMES**

## **CALIFORNIA NATURAL DIVERSITY DATABASE FORMS**

California Department of Fish and Game  
Natural Diversity Data Base

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POLIOPTILA CALIFORNICA CALIFORNICA  
COASTAL CALIFORNIA GNATCATCHER  
Element Code: ABPB008080

-----List Status-----  
Federal: Threatened  
State: None

-----NDDB Element Ranks-----  
Global: G2T2  
State: S2

-----Other Lists-----  
CDFG Status: SC

-----Habitat Associations-----

General: OBLIGATE, PERMANENT RESIDENT OF COASTAL SAGE SCRUB BELOW 2500 FT IN SOUTHERN CALIFORNIA.

Micro: LOW, COASTAL SAGE SCRUB IN ARID WASHES, ON MESAS & SLOPES. NOT ALL AREAS CLASSIFIED AS COASTAL SAGE SCRUB ARE OCCUPIED.

Occurrence No. 105      Map Index:01753      ---Dates Last Seen---      Lat/Long: 34°12'55" / 118°21'53"      Township: 02N  
Occ Rank: Unknown      Element: 1901-04-07      UTM: Zone-11 N3786687 E374290      Range: 14W  
Origin: Natural/Native occurrence      Site: 1901-04-07      Precision: NON-SPECIFIC      Section: XX Qtr XX  
Presence: Presumed Extant      Symbol Type: POINT      Meridian: S  
Trend: Unknown      Radius: 1 mile      Elevation: 800 ft  
Main Source: JAY, A. WEVZ (MUS)  
Quad Summary: BURBANK (3411823/111A)\*, VAN NUYS (3411824/111B)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: ROSCO. (MAPPED AT ROSCOE SCHOOL)  
-----Comments-----  
Distribution:  
Ecological:  
Threat:  
General: EGG SET FROM A NEST IN SAGE.  
Owner/Manager: UNKNOWN

Occurrence No. 196      Map Index:20410      ---Dates Last Seen---      Lat/Long: 34°13'05" / 118°19'49"      Township: 02N  
Occ Rank: Good      Element: 1991-06-05      UTM: Zone-11 N3786949 E377456      Range: 14W  
Origin: Natural/Native occurrence      Site: 1991-06-05      Precision: NON-SPECIFIC      Section: 34 Qtr NE  
Presence: Presumed Extant      Symbol Type: POINT      Meridian: S  
Trend: Unknown      Radius: 1/5 mile      Elevation: 1200 ft  
Main Source: GRANT, C. 1991 (OBS)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary: Cabrini Drive  
Location: VERDUGO MOUNTAIN PARK, JUST OFF CABRINI DRIVE, NORTH OF BRACE CANYON PARK, IN THE SUN VALLEY SECTION OF LOS ANGELES.  
-----Comments-----  
Distribution:  
Ecological: HABITAT IS COASTAL SAGE SCRUB ON A 20%, NORTHEAST FACING SLOPE.  
Threat:  
General: AN ADULT FEMALE WAS ATTRACTED TO A TAPED GNATCATCHER CALL. THE BIRD WAS FORAGING IN A WASH.  
Owner/Manager: LAX COUNTY

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CLEMMYS MARMORATA PALLIDA  
SOUTHWESTERN POND TURTLE  
Element Code: ARAAD02032

List Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4T2T3	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: INHABITS PERMANENT OR NEARLY PERMANENT BODIES OF WATER IN MANY HABITAT TYPES; BELOW 6000 FT ELEV.

Micro: REQUIRE BASKING SITES SUCH AS PARTIALLY SUBMERGED LOGS, VEGETATION MATS, OR OPEN MUD BANKS. NEED SUITABLE NESTING SITES.

\* SENSITIVE \*

Occurrence No. 129	Map Index:	---Dates Last Seen---	Lat/Long: /	Township:
Occ Rank: None		Element: 1917-05-11	UTM:	Range:
Origin: Natural/Native occurrence		Site: 1987-XX-XX	Precision:	Section: Qtr
Presence: Possibly Extirpated			Symbol Type:	Meridian:
Trend: Unknown			Radius:	Elevation:
Main Source: BRODE, J. ND (PERS)				
Quad Summary: BURBANK (3411823/111A)*, VAN NUYS (3411824/111B)				
County Summary: LOS ANGELES				
SNA Summary:				
Location: *SENSITIVE*	Location information suppressed.			
Comments:				
Distribution:	Please contact the California Natural Diversity Database, California Department of Fish and Game, for more information: (916) 324-3812.			
Ecological:				
Threat:				
General:				
Owner/Manager:				

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SOUTHERN COAST LIVE OAK RIPARIAN FOREST

Element Code: CTT61310CA

—List Status—  
Federal: None  
State: None

—NDDB Element Ranks—  
Global: G4  
State: S4

—Other Lists—

—Habitat Associations—  
General: None for this Element  
Micro: None for this Element

Occurrence No. 97      Map Index: 02024      —Dates Last Seen—      Lat/Long: 34°11'30" / 118°14'39"      Township: 01N  
Occ Rank: Unknown      Element: 1978-09-19      UTM: Zone-11 N3783900 E385363      Range: 13W  
Origin: Natural/Native occurrence      Site: 1978-09-19      Precision: SPECIFIC      Section: 04 Qtr S  
Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: S  
Trend: Unknown      Area: 94.7 ac      Elevation: 1480 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)\*, PASADENA (3411822/110B)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: DEER CREEK, VERDUGO MTS, SW OF MONTROSE.  
—Comments—  
Distribution: MAPPED PER INTERPRETATION OF 1978 AERIAL PHOTOS.  
Ecological: QUERCUS AGRIFOLIA WOODLAND FORMING CLOSED CANOPY ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: NEEDS FIELD VERIFICATION OF VEGETATION CONDITION, COMPOSITION. THIS WAS OCC #097 OF CTT61310CA.  
Owner/Manager: UNKNOWN

Occurrence No. 98      Map Index: 02006      —Dates Last Seen—      Lat/Long: 34°12'17" / 118°14'55"      Township: 02N  
Occ Rank: Unknown      Element: 1978-09-19      UTM: Zone-11 N3785360 E384968      Range: 13W  
Origin: Natural/Native occurrence      Site: 1978-09-19      Precision: SPECIFIC      Section: 33 Qtr S  
Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: S  
Trend: Unknown      Area: 115.9 ac      Elevation: 1320 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)\*, PASADENA (3411822/110B)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: ENGLEHEARD CANYON, WEST OF VERDUGO CITY, VERDUGO MOUNTAINS.  
—Comments—  
Distribution: MAPPED PER INTERPRETATION OF 1978 AERIAL PHOTOS.  
Ecological: QUERCUS AGRIFOLIA WOODLAND FORMING CLOSED CANOPY ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: NEEDS FIELD VERIFICATION OF VEGETATION CONDITION, COMPOSITION. THIS WAS OCC #098 OF CTT61310CA.  
Owner/Manager: UNKNOWN

Occurrence No. 100      Map Index: 01977      —Dates Last Seen—      Lat/Long: 34°13'20" / 118°16'01"      Township: 02N  
Occ Rank: Unknown      Element: 1978-09-19      UTM: Zone-11 N3787321 E383306      Range: 13W  
Origin: Natural/Native occurrence      Site: 1978-09-19      Precision: SPECIFIC      Section: 29 Qtr S  
Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: S  
Trend: Decreasing      Area: 64.3 ac      Elevation: 1800 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: SHEEP CORRAL CANYON, S OF LA CANADA.  
—Comments—  
Distribution: MAPPED PER INTERPRETATION OF 1978 AERIAL PHOTOS. ONCE CONTINUOUS W/OCCURRENCE 101 IN VERDUGO WASH.  
Ecological: QUERCUS AGRIFOLIA WOODLAND FORMING CLOSED CANOPY ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: NEEDS FIELD VERIFICATION OF VEGETATION CONDITION, COMPOSITION. THIS WAS OCC #100 OF CTT61310CA.  
Owner/Manager: UNKNOWN

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SOUTHERN COAST LIVE OAK RIPARIAN FOREST (cont.)

Element Code: CTT61310CA

-----List Status-----NDDB Element Ranks-----Other Lists-----  
Federal: None Global: G4  
State: None State: S4

Occurrence No. 101 Map Index: 01997 ---Dates Last Seen--- Lat/Long: 34°13'22" / 118°15'18" Township: 02N  
Occ Rank: Unknown Element: 1978-09-19 UTM: Zone-11 N3787385 E384410 Range: 13W  
Origin: Natural/Native occurrence Site: 1978-09-19 Precision: SPECIFIC Section: 28 Qtr XX  
Presence: Presumed Extant Symbol Type: POLYGON Meridian: S  
Trend: Decreasing Area: 27.5 ac Elevation: 1360 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: VERDUGO WASH, EAST OF CUNNINGHAM CANYON.  
-----Comments-----  
Distribution: MAPPED PER INTERPRETATION OF 1978 AERIAL PHOTOS. FORMERLY EXTENDED UP CUNNINGHAM CANYON & WAS CONTINUOUS  
W/OCCURRENCE 100 (PER WIESLANDER SURVEY).  
Ecological: QUERCUS AGRIFOLIA WOODLAND FORMING CLOSED CANOPY ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: NEEDS FIELD VERIFICATION OF VEGETATION CONDITION, COMPOSITION. THIS WAS OCC #101 OF CTT61310CA.  
Owner/Manager: UNKNOWN

Occurrence No. 102 Map Index: 01986 ---Dates Last Seen--- Lat/Long: 34°12'38" / 118°15'41" Township: 02N  
Occ Rank: Unknown Element: 1978-09-19 UTM: Zone-11 N3786016 E383797 Range: 13W  
Origin: Natural/Native occurrence Site: 1978-09-29 Precision: SPECIFIC Section: 32 Qtr SE  
Presence: Presumed Extant Symbol Type: POLYGON Meridian: S  
Trend: Unknown Area: 87.6 ac Elevation: 1680 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: HENDERSON CANYON, LA CANADA.  
-----Comments-----  
Distribution: MAPPED PER INTERPRETATION OF 1978 AERIAL PHOTOS.  
Ecological: QUERCUS AGRIFOLIA WOODLAND FORMING CLOSED CANOPY ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: NEEDS FIELD VERIFICATION OF VEGETATION CONDITION, COMPOSITION. THIS WAS OCC #102 OF CTT61310CA.  
Owner/Manager: UNKNOWN

Occurrence No. 103 Map Index: 01924 ---Dates Last Seen--- Lat/Long: 34°08'50" / 118°17'42" Township: 01N  
Occ Rank: Unknown Element: 1978-09-19 UTM: Zone-11 N3779036 E380619 Range: 14W  
Origin: Natural/Native occurrence Site: 1978-09-19 Precision: SPECIFIC Section: XX Qtr XX  
Presence: Presumed Extant Symbol Type: POLYGON Meridian: S  
Trend: Unknown Area: 37.4 ac Elevation: 560 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: GRIFFITH PARK, WEST OF THE ZOO, LOS ANGELES.  
-----Comments-----  
Distribution: MAPPED PER INTERPRETATION OF 1978 AERIAL PHOTOS.  
Ecological: QUERCUS AGRIFOLIA WOODLAND FORMING CLOSED CANOPY ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: NEEDS FIELD VERIFICATION OF VEGETATION CONDITION, COMPOSITION. THIS WAS OCC #103 OF CTT61310CA.  
Owner/Manager: CITY OF LOS ANGELES

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SOUTHERN COAST LIVE OAK RIPARIAN FOREST (cont.)

Element Code: CTT61310CA

-----List Status----- NDDB Element Ranks-----Other Lists-----  
Federal: None Global: G4  
State: None State: S4

Occurrence No. 104 Map Index: 01935 ---Dates Last Seen--- Lat/Long: 34°08'27" / 118°17'34" Township: 01N  
Occ Rank: Unknown Element: 1978-09-19 UTM: Zone-11 N3778318 E380817 Range: 14W  
Origin: Natural/Native occurrence Site: 1978-09-19 Precision: SPECIFIC Section: XX Qtr XX  
Presence: Presumed Extant Symbol Type: POLYGON Meridian: S  
Trend: Unknown Area: 32.3 ac Elevation: 600 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: GRIFFITH PARK, WEST OF HARDING GOLF COURSE, LOS ANGELES.  
-----Comments-----  
Distribution: MAPPED PER INTERPRETATION OF 1978 AERIAL PHOTOS.  
Ecological: QUERCUS AGRIFOLIA WOODLAND FORMING CLOSED CANOPY ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: NEEDS FIELD VERIFICATION OF VEGETATION CONDITION, COMPOSITION. THIS WAS OCC #104 OF CTT61310CA.  
Owner/Manager: CITY OF LOS ANGELES-PARKS DEPT

Occurrence No. 105 Map Index: 01999 ---Dates Last Seen--- Lat/Long: 34°10'41" / 118°15'11" Township: 01N  
Occ Rank: Unknown Element: 1978-09-19 UTM: Zone-11 N3782426 E384525 Range: 13W  
Origin: Natural/Native occurrence Site: 1978-09-19 Precision: SPECIFIC Section: 09 Qtr S  
Presence: Presumed Extant Symbol Type: POLYGON Meridian: S  
Trend: Decreasing Area: 44.4 ac Elevation: 1360 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)\*, PASADENA (3411822/110B)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: DEAD HORSE CANYON, GLENDALE.  
-----Comments-----  
Distribution: MAPPED PER INTERPRETATION OF 1978 AERIAL PHOTOS. MUCH REDUCED FROM 1935 EXTENT.  
Ecological: QUERCUS AGRIFOLIA WOODLAND FORMING CLOSED CANOPY ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: NEEDS FIELD VERIFICATION OF VEGETATION CONDITION, COMPOSITION. THIS WAS OCC #105 OF CTT61310CA.  
Owner/Manager: UNKNOWN

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SOUTHERN COTTONWOOD WILLOW RIPARIAN FOREST

Element Code: CTT61330CA

-----List Status-----

Federal: None

State: None

-----NDDB Element Ranks-----

Global: G3

State: S3.2

-----Other Lists-----

-----Habitat Associations-----

General: None for this Element

Micro: None for this Element

Occurrence No. 47      Map Index: 01877      ---Dates Last Seen---      Lat/Long: 34°09'13" / 118°19'29"      Township: 01N  
Occ Rank: None      Element: 1935-XX-XX      UTM: Zone-11 N3779792 E377886      Range: 14W  
Origin: Natural/Native occurrence      Site: 1978-09-19      Precision: SPECIFIC      Section: XX Qtr XX  
Presence: Extirpated      Symbol Type: POLYGON      Meridian: S  
Trend: Unknown      Area: 83.7 ac      Elevation: 480 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: NEAR VENTURA FREEWAY, (134) IN VIC OF NBC & DISNEY STUDIOS, FORMERLY ON LOS ANGELES RIVER.  
-----Comments-----  
Distribution: EXTIRPTAED BY URBANIZATION, RIVER CHANNELIZED PER INTERPRETATION OF 1978 AERIAL PHOTOS.  
Ecological: MAPPED BY WIESLANDER SURVEY (1935) AS CLOSED CANOPY POPULUS FREMONTII & SALIX SPP.  
Threat:  
General: THIS WAS OCC #047 OF CTT61330CA.  
Owner/Manager: PVT



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SOUTHERN SYCAMORE ALDER RIPARIAN WOODLAND

Element Code: CTT62400CA

—List Status—  
Federal: None  
State: None

—NDDB Element Ranks—  
Global: G4  
State: S4

—Other Lists—

—Habitat Associations—

General: None for this Element  
Micro: None for this Element

Occurrence No. 114      Map Index: 01820      —Dates Last Seen—      Lat/Long: 34°14'28" / 118°20'36"      Township: 02N  
Occ Rank: Unknown      Element: 1978-09-19      UTM: Zone-11 N3789510 E376289      Range: 14W  
Origin: Natural/Native occurrence      Site: 1978-09-19      Precision: SPECIFIC      Section: 21 Qtr NE  
Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: S  
Trend: Unknown      Area: 33.4 ac      Elevation: 1200 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: MCDONALD CREEK, NORTH OF LA TUNA CANYON.  
—Comments—  
Distribution: EXTANT PER INTERPRETATION OF 1978 AERIAL PHOTOS, THOUGH MUCH REDUCED.  
Ecological: CLOSED CANOPY QUERCUS AGRIFOLIA & PLATANUS RACEMOSA ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: NEEDS FIELD VERIFICATION. THIS WAS OCC #114 OF CTT62400CA.  
Owner/Manager: UNKNOWN

Occurrence No. 115      Map Index: 01879      —Dates Last Seen—      Lat/Long: 34°08'50" / 118°19'11"      Township: 01N  
Occ Rank: Unknown      Element: 1978-09-19      UTM: Zone-11 N3779056 E378332      Range: 14W  
Origin: Natural/Native occurrence      Site: 1978-09-19      Precision: SPECIFIC      Section: XX Qtr XX  
Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: S  
Trend: Unknown      Area: 67.4 ac      Elevation: 560 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: SENNET CANYON, S OF HOLLYWOOD FREEWAY, FOREST LAWN MEMORIAL PARK.  
—Comments—  
Distribution: EXTIRPATED BY URBANIZATION PER INTERPRETATION OF 1978 AERIAL PHOTOS.  
Ecological: CLOSED CANOPY QUERCUS AGRIFOLIA & PLATANUS RACEMOSA ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: THIS WAS OCC #115 OF CTT62400CA  
Owner/Manager: PVT

Occurrence No. 116      Map Index: 01902      —Dates Last Seen—      Lat/Long: 34°12'53" / 118°18'21"      Township: 02N  
Occ Rank: Unknown      Element: 1978-09-19      UTM: Zone-11 N3786535 E379711      Range: 14W  
Origin: Natural/Native occurrence      Site: 1978-09-19      Precision: SPECIFIC      Section: 36 Qtr W  
Presence: Presumed Extant      Symbol Type: POLYGON      Meridian: S  
Trend: Unknown      Area: 31.1 ac      Elevation: 560 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: STOUGH CANYON, U/S FROM STOUGH PARK, BURBANK.  
—Comments—  
Distribution: EXTANT ALTHOUGH MUCH REDUCED, 1978, PER INTERPRETATION OF AERIAL PHOTOS. FORMERLY EXTENDED UP EAST ARM OF CANYON.  
Ecological: CLOSED CANOPY QUERCUS AGRIFOLIA & PLATANUS RACEMOSA ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: NEEDS FIELD VERIFICATION. THIS WAS OCC #116 OF CTT62400CA.  
Owner/Manager: UNKNOWN

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SOUTHERN SYCAMORE ALDER RIPARIAN WOODLAND (cont.)

Element Code: CTT62400CA

-----List Status----- NDDB Element Ranks-----Other Lists-----  
Federal: None Global: G4  
State: None State: S4

Occurrence No. 117 Map Index: 01925 ---Dates Last Seen--- Lat/Long: 34°12'43" / 118°17'43" Township: 02N  
Occ Rank: Unknown Element: 1978-09-19 UTM: Zone-11 N3786209 E380670 Range: 13W  
Origin: Natural/Native occurrence Site: 1978-09-19 Precision: SPECIFIC Section: 36 Qtr E  
Presence: Presumed Extant Symbol Type: POLYGON Meridian: S  
Trend: Unknown Area: 48.6 ac Elevation: 1560 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: INTERMITTENT STREAM U/S FROM BELL MUNICIPAL GOLF COURSE, BURBANK. IN WILDWOOD CYN PARK.  
-----Comments-----  
Distribution: 1978 EXTENT MAPPED FROM INTERPRETATION OF AERIAL PHOTOS.  
Ecological: CLOSED CANOPY QUERCUS AGRIFOLIA & PLATANUS RACEMOSA ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: NEEDS FIELD VERIFICATION. THIS WAS OCC #117 OF CTT62400CA.  
Owner/Manager: LAX COUNTY

Occurrence No. 118 Map Index: 01936 ---Dates Last Seen--- Lat/Long: 34°12'30" / 118°17'30" Township: 02N  
Occ Rank: Unknown Element: 1978-09-19 UTM: Zone-11 N3785803 E381012 Range: 14W  
Origin: Natural/Native occurrence Site: 1978-09-19 Precision: SPECIFIC Section: 36 Qtr SE  
Presence: Presumed Extant Symbol Type: POLYGON Meridian: S  
Trend: Decreasing Area: 82.8 ac Elevation: 1560 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: WILDWOOD CANYON, WILDWOOD CANYON PARK, VERDUGO MOUNTAINS.  
-----Comments-----  
Distribution: 1978 EXTENT MAPPED FROM INTERPRETATION OF AERIAL PHOTOS.  
Ecological: CLOSED CANOPY QUERCUS AGRIFOLIA & PLATANUS RACEMOSA ACCORDING TO WIESLANDER SURVEY.  
Threat: DAMAGED BY ROAD CONSTRUCTION.  
General: NEEDS FIELD VERIFICATION. THIS WAS OCC #118 OF CTT62400CA.  
Owner/Manager: LAX COUNTY

Occurrence No. 119 Map Index: 01949 ---Dates Last Seen--- Lat/Long: 34°12'19" / 118°17'03" Township: 01N  
Occ Rank: Unknown Element: 1978-09-19 UTM: Zone-11 N3785473 E381702 Range: 13W  
Origin: Natural/Native occurrence Site: 1978-09-19 Precision: SPECIFIC Section: 06 Qtr NW  
Presence: Presumed Extant Symbol Type: POLYGON Meridian: S  
Trend: Unknown Area: 97.6 ac Elevation: 1560 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: SUNSET CANYON, VERDUGO MTS N OF BURBANK.  
-----Comments-----  
Distribution: 1978 EXTENT MAPPED FROM INTERPRETATION OF AERIAL PHOTOS.  
Ecological: CLOSED CANOPY QUERCUS AGRIFOLIA & PLATANUS RACEMOSA ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: NEEDS FIELD VERIFICATION. THIS WAS OCC #119 OF CTT62400CA.  
Owner/Manager: UNKNOWN

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SOUTHERN SYCAMORE ALDER RIPARIAN WOODLAND (cont.)

Element Code: CTT62400CA

List Status

Federal: None

State: None

NDDB Element Ranks

Global: G4

State: S4

Other Lists

Occurrence No. 120

Map Index:01985

Dates Last Seen

Element: 1978-09-19

Site: 1978-09-19

Lat/Long: 34°11'21" / 118°15'49"

UTM: Zone-11 N3783643 E383564

Precision: SPECIFIC

Symbol Type: POLYGON

Area: 28.0 ac

Township: 01N

Range: 13W

Section: 08 Qtr NE

Meridian: S

Elevation: 1640 ft

Occ Rank: Unknown

Origin: Natural/Native occurrence

Presence: Presumed Extant

Trend: Unknown

Main Source: HOLLAND, R. 1988 (MAP)

Quad Summary: BURBANK (3411823/111A)

County Summary: LOS ANGELES

SNA Summary:

Location: POMEROY CANYON, U/S OF BRAND PARK, N OF GLENDALE.

Comments:

Distribution: 1978 EXTENT MAPPED FROM INTERPRETATION OF AERIAL PHOTOS.

Ecological: CLOSED CANOPY QUERCUS AGRIFOLIA & PLATANUS RACEMOSA ACCORDING TO WIESLANDER SURVEY.

Threat:

General: NEEDS FIELD VERIFICATION. THIS WAS OCC #120 OF CTT62400CA

Owner/Manager: UNKNOWN

Occurrence No. 121

Map Index:01939

Dates Last Seen

Element: 1978-09-19

Site: 1978-09-19

Lat/Long: 34°08'03" / 118°17'21"

UTM: Zone-11 N3777584 E381125

Precision: SPECIFIC

Symbol Type: POLYGON

Area: 74.0 ac

Township: 01N

Range: 14W

Section: XX Qtr XX

Meridian: S

Elevation: 680 ft

Occ Rank: Unknown

Origin: Natural/Native occurrence

Presence: Presumed Extant

Trend: Unknown

Main Source: HOLLAND, R. 1988 (MAP)

Quad Summary: BURBANK (3411823/111A)

County Summary: LOS ANGELES

SNA Summary:

Location: SPRING CANYON AND ADJOINING INTERMITTENT STREAM, GRIFFITH PARK, LOS ANGELES.

Comments:

Distribution: 1978 EXTENT MAPPED FROM INTERPRETATION OF AERIAL PHOTOS.

Ecological: CLOSED CANOPY QUERCUS AGRIFOLIA & PLATANUS RACEMOSA ACCORDING TO WIESLANDER SURVEY.

Threat:

General: NEEDS FIELD VERIFICATION. THIS WAS OCC #121 OF CTT62400CA.

Owner/Manager: CITY OF LOS ANGELES-PARKS DEPT

Occurrence No. 122

Map Index:01897

Dates Last Seen

Element: 1978-09-19

Site: 1978-09-19

Lat/Long: 34°07'29" / 118°18'45"

UTM: Zone-11 N3776582 E378964

Precision: SPECIFIC

Symbol Type: POLYGON

Area: 94.6 ac

Township: 01N

Range: 14W

Section: 35 Qtr E

Meridian: S

Elevation: 760 ft

Occ Rank: Unknown

Origin: Natural/Native occurrence

Presence: Presumed Extant

Trend: Unknown

Main Source: HOLLAND, R. 1988 (MAP)

Quad Summary: BURBANK (3411823/111A)\*, HOLLYWOOD (3411813/111D)

County Summary: LOS ANGELES

SNA Summary:

Location: BRUSH CANYON, GRIFFITH PARK, LOS ANGELES.

Comments:

Distribution: PART ON BURBANK QUAD EXTANT 1978 PER INTERPRETATION OF AERIALS; PART ON HOLLYWOOD QUAD NOT COVERED IN 1978 PHOTOS.

Ecological: CLOSED CANOPY QUERCUS AGRIFOLIA & PLATANUS RACEMOSA ACCORDING TO WIESLANDER SURVEY.

Threat:

General: NEEDS FIELD VERIFICATION. THIS WAS OCC #122 OF CTT62400CA.

Owner/Manager: CITY OF LOS ANGELES, UNKNOWN

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SOUTHERN SYCAMORE ALDER RIPARIAN WOODLAND (cont.)

Element Code: CIT62400CA

-----List Status----- NDDB Element Ranks-----Other Lists-----  
Federal: None Global: G4  
State: None State: S4

Occurrence No. 123 Map Index: 01989 ---Dates Last Seen--- Lat/Long: 34°10'45" / 118°15'37" Township: 01N  
Occ Rank: None Element: 1935-XX-XX UTM: Zone-11 N3782554 E383849 Range: 13W  
Origin: Natural/Native occurrence Site: 1978-09-19 Precision: SPECIFIC Section: 08 Qtr S  
Presence: Extirpated Symbol Type: POLYGON Meridian: S  
Trend: Unknown Area: 38.3 ac Elevation: 1000 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: HILLCREST CANYON, GLENDALE.  
-----Comments-----  
Distribution: COMMUNITY NOT SEEN IN INTERPRETATION OF 1978 AERIALS; PRESUMED TO BE EXTIRPATED.  
Ecological: CLOSED CANOPY PLATANUS RACEMOSA ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: THIS WAS OCC #123 OF CTT62400CA.  
Owner/Manager: UNKNOWN

Occurrence No. 133 Map Index: 01905 ---Dates Last Seen--- Lat/Long: 34°14'02" / 118°18'34" Township: 02N  
Occ Rank: Unknown Element: 1978-09-19 UTM: Zone-11 N3788679 E379389 Range: 14W  
Origin: Natural/Native occurrence Site: 1978-09-19 Precision: SPECIFIC Section: 25 Qtr N  
Presence: Presumed Extant Symbol Type: POLYGON Meridian: S  
Trend: Unknown Area: 312.4 ac Elevation: 1400 ft  
Main Source: HOLLAND, R. 1988 (MAP)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: LA TUNA CYN, VERDUGO MTNS, FR DEBRIS BASIN U/S NEARLY TO LAS BARRAS CYN.  
-----Comments-----  
Distribution: 1978 EXTENT MAPPED FROM INTERPRETATION OF AERIAL PHOTOS; MUCH REDUCED, FORMERLY FOUND IN MOST TRIBUTARY CANYONS.  
Ecological: CLOSED CANOPY QUERCUS AGRIFFOLIA & PLATANUS RACEMOSA ACCORDING TO WIESLANDER SURVEY.  
Threat:  
General: NEEDS FIELD VERIFICATION. THIS WAS OCC #133 OF CTT62400CA.  
Owner/Manager: UNKNOWN

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CALIFORNIA WALNUT WOODLAND

Element Code: CTT71210CA

—List Status—

Federal: None

State: None

NDDB Element Ranks

Global: G2

State: S2.1

—Other Lists—

—Habitat Associations—

General: None for this Element

Micro: None for this Element

Occurrence No. 40 Map Index: 01782

Occ Rank: None

Origin: Natural/Native occurrence

Presence: Extirpated

Trend: Unknown

Main Source: WIESLANDER, A. 1935 (MAP)

Quad Summary: BURBANK (3411823/111A)

County Summary: LOS ANGELES

SNA Summary:

Location: UNIVERSAL CITY STUDIOS, NE HOLLYWOOD FREEWAY.

—Comments—

Distribution: EXTIRPATED ACCORDING TO INTERPRETATION OF 1978 AERIAL PHOTOS.

Ecological: MAPPED BY WIESLANDER SURVEY AS OPEN WOODLAND OF JUGLANS CALIFORNICA.

Threat:

General: THIS WAS OCC #040 OF CTT71210CA.

Owner/Manager: PVT

—Dates Last Seen—

Element: 1935-XX-XX

Site: 1935-XX-XX

Lat/Long: 34°08'27" / 118°21'33"

UTM: Zone-11 N3778416 E374690

Precision: NON-SPECIFIC

Symbol Type: POINT

Radius: 1/5 mile

Township: 01N

Range: 14W

Section: XX Qtr XX

Meridian: S

Elevation: 560 ft

Occurrence No. 41 Map Index: 01960

Occ Rank: Unknown

Origin: Natural/Native occurrence

Presence: Presumed Extant

Trend: Unknown

Main Source: HOLLAND, R. 1988 (MAP)

Quad Summary: BURBANK (3411823/111A)\*, HOLLYWOOD (3411813/111D)

County Summary: LOS ANGELES

SNA Summary:

Location: WEST OF GRIFFITH PARK DR, SE OF FERN CANYON, GRIFFITH PARK, LOS ANGELES.

—Comments—

Distribution: EXTANT 1978 PER INTERPRETATION OF AERIAL PHOTOS.

Ecological: MAPPED BY WIESLANDER SURVEY AS JUGLANS CALIFORNICA AND QUERCUS AGRIFOLIA.

Threat:

General: NEEDS FIELD VERIFICATION. THIS WAS OCC #041 OF CTT71210CA.

Owner/Manager: CITY OF LOS ANGELES-PARKS DEPT

—Dates Last Seen—

Element: 1978-09-19

Site: 1978-09-19

Lat/Long: 34°07'42" / 118°16'45"

UTM: Zone-11 N3776932 E382037

Precision: SPECIFIC

Symbol Type: POLYGON

Area: 102.1 ac

Township: 01N

Range: 13W

Section: XX Qtr XX

Meridian: S

Elevation: 520 ft

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BERBERIS NEVINII

NEVIN'S BARBERRY

Element Code: PDBER060A0

—List Status—  
Federal: Endangered  
State: Endangered

—NDDB Element Ranks—  
Global: G2  
State: S2.2

—Other Lists—  
CNPS List: 1B  
R-E-D Code: 3-3-3

—Habitat Associations—

General: CHAPARRAL, CISMONTANE WOODLAND, COASTAL SCRUB, RIPARIAN SCRUB.  
Micro: CN STEEP, N-FACING SLOPES OR IN LOW GRADE SANDY WASHES. 290-1575M.

Occurrence No. 21      Map Index: 01921      —Dates Last Seen—      Lat/Long: 34°08'12" / 118°17'49"      Township: 01N  
Occ Rank: Good      Element: 1986-08-24      UTM: Zone-11 N3777874 E380415      Range: 14W  
Origin: Transplant Outside of      Site: 1986-08-24      Precision: NON-SPECIFIC      Section: XX Qtr XX  
Native Hab./Range  
Presence: Presumed Extant      Symbol Type: POINT      Meridian: S  
Trend: Unknown      Radius: 1/5 mile      Elevation: 1140 ft  
Main Source: BIRGH, H. AND R. FISHER 1986 (OBS)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: BELOW WATER TOWER #113, VISTA DEL VALLE RD, GRIFFITH PARK, SANTA MONICA MOUNTAINS.  
—Comments—  
Distribution:  
Ecological: ON NORTH SLOPE OF CHAPARRAL ON SANTA MONICA MOUNTAINS SOIL. ASSOCIATED WITH ERIOGONUM, RHUS, QUERCUS  
AGRIFOLIA, EUCALYPTUS.  
Threat: THREATENED BY FOOT TRAFFIC, FIRE, EXOTIC SPECIES.  
General: 30-40 SHRUBS. PROBABLY PLANTED HERE DURING THE 1930'S AND 1940'S; THIS SHRUB WAS COMMONLY PLANTED AFTER FIRE  
ACCORDING TO PARK HORT STAFF.  
Owner/Manager: CITY OF LOS ANGELES

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ATRIPLEX PARISHII

PARISH'S BRITTLESCALE

Element Code: PDCHE041D0

—List Status—	—NDDB Element Ranks—	—Other Lists—
Federal: Species of Concern	Global: G2?	CNPS List: 1B
State: None	State: S1.1	R-E-D Code: 3-3-2

—Habitat Associations—

General: ALKALI MEADOWS, VERNAL POOLS, CHENOPOD SCRUB, PLAYAS. PLANT COLLECTED ONLY ONCE IN CALIFORNIA SINCE 1974 (IN 1993).  
Micro: USUALLY ON DRYING ALKALI FLATS WITH FINE SOILS. 4-14CM.

Occurrence No. 7	Map Index: 35361	—Dates Last Seen—	Lat/Long: 34°09'21" / 118°19'28"	Township: 01N
Occ Rank: Unknown		Element: XXXX-XX-XX	UTM: Zone-11 N3780018 E377903	Range: 14W
Origin: Natural/Native occurrence		Site: XXXX-XX-XX	Precision: NON-SPECIFIC	Section: XX Qtr XX
Presence: Presumed Extant			Symbol Type: POINT	Meridian: S
Trend: Unknown			Radius: 1 mile	Elevation: 525 ft
Main Source: HAASE #5670 NY (HERB)				
Quad Summary: BURBANK (3411823/111A)				
County Summary: LOS ANGELES				
SNA Summary:				
Location: NEAR CAHUENGA.				
—Comments—				
Distribution: MAPPED ALONG NORTHERN FOOT OF SANTA MONICA MOUNTAINS NORTH OF GRIFFITH PARK.				
Ecological:				
Threat:				
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS UNDATED COLLECTION BY HAASE.				
Owner/Manager: UNKNOWN				

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MALACOTHAMNUS DAVIDSONII  
DAVIDSON'S BUSH MALLOW  
Element Code: PDMAL0Q040

-----List Status-----NDDB Element Ranks-----Other Lists-----  
Federal: Species of Concern Global: G1 CNPS List: 1B  
State: None State: S1.1 R-E-D Code: 2-2-3

-----Habitat Associations-----  
General: COASTAL SCRUB, RIPARIAN WOODLAND, CHAPARRAL.  
Micro: SANDY WASHES. 180-855M.

Occurrence No. 1 Map Index: 17483 ---Dates Last Seen--- Lat/Long: 34°12'55" / 118°19'56" Township: 02N  
Occ Rank: Good Element: 1987-04-08 UTM: Zone-11 N3786631 E377274 Range: 14W  
Origin: Natural/Native occurrence Site: 1987-04-08 Precision: SPECIFIC Section: 34 Qtr NE  
Presence: Presumed Extant Symbol Type: POINT Meridian: S  
Trend: Unknown Radius: 80 meters Elevation: 1100 ft  
Main Source: WISHNER, C. 1987 (OBS)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: CABRINI CANYON. UPSTREAM FROM SILTATION DAM.  
-----Comments-----  
Distribution:  
Ecological: SURROUNDED BY COASTAL SAGEBRUSH SCRUB, ALSO A FEW PLANTS UPSTREAM IN NARROW SECTION OF DRAINAGE DOMINATED BY  
AGERATINA ADENOPHORA AND BACCHARIS SALICIFOLIUS.  
Threat: PROPERTY PROPOSED FOR RESIDENTIAL DEVELOPMENT.  
General: 100-200 PLANTS REPORTED IN 1987. SPECIES WAS NOT FOUND AFTER EXTENSIVE SEARCH IN ADJACENT FISHER CANYON NOR  
IN NEARBY CRAIG CANYON.  
Owner/Manager: PVT



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CHORIZANTHE PARRYI VAR FERNANDINA  
SAN FERNANDO VALLEY SPINEFLOWER  
Element Code: PDPGN040J1

-----List Status-----  
Federal: Candidate  
State: Candidate

-----NDDB Element Ranks-----  
Global: G2T1  
State: S1.1

-----Other Lists-----  
CNPS List: 1B  
R-E-D Code: 3-3-3

-----Habitat Associations-----  
General: COASTAL SCRUB. FORMERLY KNOWN FROM SOUTHERN CALIFORNIA; PROBABLY EXTINCT.  
Micro: SANDY SOILS. 1000-1700M.

Occurrence No. 12      Map Index: 41274      ---Dates Last Seen---      Lat/Long: 34°10'49" / 118°18'36"      Township: 01N  
Occ Rank: None      Element: 1890-05-11      UTM: Zone-11 N3782740 E379263      Range: 14W  
Origin: Natural/Native occurrence      Site: 1890-05-11      Precision: NON-SPECIFIC      Section: 11 Qtr XX  
Presence: Possibly Extirpated      Symbol Type: POINT      Meridian: S  
Trend: Unknown      Radius: 1 mile      Elevation: 600 ft  
Main Source: DAVIDSON, A. SN RSA #392787 (HERB)  
Quad Summary: BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: BURBANK.  
-----Comments-----  
Distribution: EXACT LOCATION NOT KNOWN; MAPPED IN VICINITY OF BURBANK. SITE COULD PROBABLY HAVE BEEN ANYWHERE IN THIS AREA.  
Ecological:  
Threat:  
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1890 COLLECTION BY DAVIDSON.  
Owner/Manager: UNKNOWN

Occurrence No. 13      Map Index: 41275      ---Dates Last Seen---      Lat/Long: 34°10'05" / 118°22'37"      Township: 01N  
Occ Rank: None      Element: XXXX-XX-XX      UTM: Zone-11 N3781467 E373084      Range: 14W  
Origin: Natural/Native occurrence      Site: XXXX-XX-XX      Precision: NON-SPECIFIC      Section: 17 Qtr XX  
Presence: Possibly Extirpated      Symbol Type: POINT      Meridian: S  
Trend: Unknown      Radius: 1 mile      Elevation: 300 ft  
Main Source: DAVIDSON, A. SN RSA #392589 (HERB)  
Quad Summary: VAN NUYS (3411824/111B)\*, BURBANK (3411823/111A)  
County Summary: LOS ANGELES  
SNA Summary:  
Location: TOLUCCA (NORTH HOLLYWOOD).  
-----Comments-----  
Distribution: THE TOWN OF TOLUCCA CHANGED IT'S NAME TO NORTH HOLLYWOOD IN 1906. EXACT LOCATION NOT KNOWN; MAPPED IN VICINITY OF WEST HOLLYWOOD.  
Ecological:  
Threat:  
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1890 COLLECTION BY DAVIDSON.  
Owner/Manager: UNKNOWN

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<i>DODECAHEMA LEPTOCERAS</i> SLENDER-HORNED SPINEFLOWER Element Code: PDPGN0V010	-----List Status----- Federal: Endangered State: Endangered	-----NDDB Element Ranks----- Global: G1 State: S1.1	-----Other Lists----- CNPS List: 1B R-E-D Code: 3-3-3
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-----Habitat Associations-----  
General: CHAPARRAL, COASTAL SCRUB (ALLUVIAL FAN SAGE SCRUB). HIST. FROM LAX, RIV, AND SBD COUNTIES; EXTIRP. FROM MUCH OF RANGE.  
Micro: FLOOD DEPOSITED TERRACES AND WASHES; ASSOC INCLUDE ENCELIA, DALEA, LEPIDOSPARTUM, ETC. 200-760M.

Occurrence No. 36	Map Index:41056	---Dates Last Seen---	Lat/Long: 34°13'15" / 118°14'37"	Township: 02N
Occ Rank: None		Element: 1916-07-01	UTM: Zone-11 N3787149 E385427	Range: 13W
Origin: Natural/Native occurrence		Site: 1916-07-01	Precision: NON-SPECIFIC	Section: 33 Qtr XX
Presence: Possibly Extirpated			Symbol Type: POINT	Meridian: S
Trend: Unknown			Radius: 1 mile	Elevation: 1800 ft
Main Source: DAVIDSON, A. #3163 RSA (HERB)				
Quad Summary: PASADENA (3411822/110B)*, BURBANK (3411823/111A)				
County Summary: LOS ANGELES				
SNA Summary:				
Location: CRESCENTA (LA CRESCENTA).				
-----Comments-----				
Distribution: MAPPED IN VICINITY OF LA CRESCENTA.				
Ecological:				
Threat: THIS AREA APPEARS TO BE HEAVILY DEVELOPED ACCORDING TO THE TOPO MAP.				
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1916 COLLECTION BY DAVIDSON.				
Owner/Manager: UNKNOWN				

## **PROJECT BIOLOGISTS – RESUMES**

**AREAS OF EXPERTISE**

- Project Management
- Endangered Species Surveys and Permitting
- Botanical and Wildlife Surveys
- Wetland Delineation and Permitting
- Restoration Planning and Monitoring
- Construction Monitoring and Compliance

**EDUCATION**

University of California, Santa Barbara: B.A., Environmental Studies and Geography, 1988

Wetland Training Institute, 1994

Wetland Delineation Certification, 1994

**PROFESSIONAL HISTORY**

URS Corporation (formerly URS Greiner Woodward Clyde), Senior Staff Environmental Scientist, 1989–present

Santa Barbara Botanic Gardens, Environmental Science Instructor, 1988

Flood Control District, Department of Water Resources, County of Santa Barbara, Engineer Aide II, 1987-88

**REPRESENTATIVE EXPERIENCE**

Ms. Knowlton's combined professional history and education provide a broad base of experience in environmental consulting. She has over 11 years of professional experience in this field and has extensive experience in all phases of natural resource management, including permit compliance, mitigation and monitoring, agency coordination, impact assessment, environmental restoration, and wetlands development. Ms. Knowlton has conducted biological studies and permitting in grassland, desert, chaparral, wetland, riparian and mountain habitats in California, Arizona, Nevada, Oregon, Utah, and Washington.

Examples of her recent project management and/or task leader experience include:

- Manager of Biological Resource scoping, field studies, reporting, permitting and agency consultation for the following power plant permitting projects: Enron Pastoria Energy Facility; Enron Antelope Valley Power Project; InterGen Ocotillo Power Project; Enron Long Beach Power Facility; NRG El Segundo Power Redevelopment project; and AES Huntington Beach Generating Station Retool Project.
- Botanical and wildlife field surveys, including threatened and endangered species for the following projects in California: Gaviota Creek Pipeline Repair, Goleta Slough, Santa Barbara Airport, Girsh Property (Santa Barbara County). Siting study for the San Diego County Water Authority; reservoir siting study for the Las Virgenes Municipal Water District; West Valley Water Pipeline Project; numerous rare plant, reptile and amphibian surveys in Nevada, Arizona, Oregon and Washington.
- Task manager for the biological technical reports, Mitigation studies field surveys and agency coordination for the Salinas Dam Project (San Luis Obispo County); Texaco Exploration & production (Ventura and Orange counties); Routes 101/154 Interchange Project (Santa Barbara County); Caltrans Route 101 Realignment Project at Pinecate Rocks (San Benito County).
- Biologist for the City of Santa Barbara Creek Inventory Studies and City of Eugene Willow Creek Watershed Analysis. Prepared and presented study methodology protocols, responsible for field surveys and reports.

**SURVEY EXPERIENCE  
FOR LISTED SPECIES**

- San Joaquin antelope squirrel
- Giant kangaroo rat
- San Joaquin kit fox
- Blunt-nosed leopard lizard
- Desert tortoise
- Arroyo toad
- Red-legged frog
- SW willow flycatcher
- Kaweah brodiaea
- San Clemente Island larkspur
- Santa Monica dudleya
- Hoover's woolly star
- Otay tarplant
- Gaviota tarplant
- Mohave tarplant
- Santa Susanna tarplant
- San Clemente Island woodland star and bush mallow
- Nevin's barberry
- Lyon's pentachaeta
- Owens Valley checkerbloom
- Piute Mountains navarretia

**AFFILIATIONS**

Association of State  
Wetland Scientists

Society of Ecological  
Restoration and  
Management

California Native Plant  
Society

- Over 8 years of 404 wetland delineations and permitting including: multiple projects in Santa Barbara County, Ventura County; San Diego County; Los Angeles County; Riverside County; Portland, Oregon; and in Washington and Utah.
- Habitat Conservation Plan preparation for the Ventura River Watershed and for the Pastoria Energy Facility.
- Restoration plan development and implementation at the Santa Barbara Airport in Goleta Slough, vernal pools in the Los Alamos Valley; Lake Casitas Watershed (Ventura County); Santa Clara River (Los Angeles County).
- Historic habitat analysis for the Santa Ynez River as part of the Lake Cachuma Contract Renewal Project (Santa Barbara County). Similar studies currently underway for the Ventura River system.
- Analyzed the effects of air pollution on vegetation and aquatic resources from compressor stations and electrical generation plants in California and Arizona.
- Conducted detailed oak tree surveys at potential reservoir sites for the Las Virgenes Municipal Water District and the San Diego County Water Authority; for Caltrans projects in multiple counties; and at Santa Margarita Lake (San Luis Obispo County).
- Conducted endangered species surveys and permitting for emergency flood control and fire control projects for Federal Emergency Management Agency (FEMA).
- Prepared and implemented post-fire slope restoration manuals for Ventura County for FEMA and in Ventura, Los Angeles and Orange counties for the Office of Emergency Services.
- Prepared and implemented biological monitoring and reporting programs for the Gibraltar Dam Project, Desalination Project, Caltrans 101/154 Interchange; and Airport Restoration Project in Goleta Slough (Santa Barbara County); and Casitas Dam Project (Ventura County). Tasks included relocating and monitoring resident turtle populations, revegetation monitoring, and post-construction biological monitoring programs.

**AREAS OF EXPERTISE**

- Threatened and Endangered Species Surveys
- Ecosystem Assessment and Restoration
- Wetland Delineation

**EDUCATION**

University of Illinois, MA,  
Environmental Studies,  
1995

Quincy University, B S,  
Biology, 1993.

**PROFESSIONAL  
HISTORY**

URS, Biologist 2000-  
Present

Navy Defense Fuel  
Support Point, Palos  
Verdes Peninsula Land  
Conservancy, Rolling  
Hills, California, San  
Pedro, California, Site  
Manager 1999-2000

Channel Islands National  
Park, Ventura, California,  
Biological Science  
Technician, 1997-1999

U. S. Fish and Wildlife  
Service, Bosque Del  
Apache National Wildlife  
Refuge, Biological  
Technician, 1997

Utah Department of  
Natural Resources, Cedar  
City, Utah, Biological  
Technician, 1996

**REPRESENTATIVE BOTANICAL EXPERIENCE**

- Performed baseline surveys for riparian restoration study, fire monitoring transects, general plant community assessments, and specific exotic or sensitive plant surveys at Channel Islands National Park.
- As the primary botanist at Bosque Del Apache National Wildlife Refuge, developed a vegetation sampling protocol for biomonitoring areas using Anderson and Ohmart's sampling techniques for foliage density; biomonitoring areas included salt cedar forest, cottonwood revegetation, brush forest and meadows.
- Established permanent point-intercept vegetation transects at San Bernardino National Wildlife Refuge using the Park Service Manual to monitor the effects of prescribed burns and cessation of grazing on upland grass communities.
- Assisted Illinois Natural History Survey research scientists and Illinois Department of Transportation biologists with wetland delineation, vegetation surveys, and threatened and endangered species searches.

**REPRESENTATIVE WILDLIFE EXPERIENCE**

- Performed butterfly surveys and supervised captive breeding of the endangered Palos Verdes Blue butterfly at Navy Defense Fuel Support Point; assured availability of food plant and functional cages.
- Conducted passerine bird surveys (point counts), waterfowl counts, and herptile census using arrays with pitfalls and funnel traps in Bosque Del Apache National Wildlife Refuge biomonitoring areas.
- Monitored populations of sensitive native Virgin River fish communities (Virgin spinedace, speckled dace, desert and flannelmouth sucker, and Virgin River chub) with seine nets and electroshocking equipment.
- Conducted surveys with a seine net to monitor populations of endangered fishes at San Bernardino National Wildlife Refuge; noted parasites such as black spot and Asian tapeworm.
- Assisted Illinois Natural History Survey and Illinois Department of Transportation biologists with Illinois threatened and endangered species searches and mist netting for bats.

U. S. Fish and Wildlife  
Service, San Bernardino  
National Wildlife Refuge,  
Douglas, Arizona,  
Biological Technician,  
1996

Illinois Natural History  
Survey, Champaign,  
Illinois, Assistant Wetland  
Ecologist, 1995

Illinois Department of  
Transportation,  
Springfield, Illinois,  
Natural Resource Intern,  
1993-1995

## **REPRESENTATIVE ECOSYSTEM ASSESSMENT AND MANAGEMENT EXPERIENCE**

- Managed the restoration of 20 acres of coastal sagebrush habitat at Navy Defense Fuel Support Point.
- Implemented vegetation restoration projects on the Channel Islands; propagated and transplanted native vegetation, carried out exotic species and erosion control projects.
- Managed moist soil impoundments by flooding and controlling water levels to insure maximum production of desirable native plant species at Bosque Del Apache National Wildlife Refuge.
- Monitored the quality of native fishes habitat of the Virgin River drainage (southern Utah); collected data on invertebrates, riparian vegetation, substrate, flow, and other stream bed characteristics Utah Department of Natural Resources.
- Assisted Utah Department of Natural Resources biologists with the Virgin River red shiner eradication project: salvaged native fishes; scouted back water areas for potential sources of red shiner, used drip stations and backpacks to apply rotenone (Noxfish) to eliminate red shiner.
- Performed habitat restoration for threatened and endangered species including the Yacqui topminnow, beautiful shiner, Yacqui chub and Chiricahua leopard frog at San Bernardino National Wildlife Refuge; trapped, controlled and collected data on bull frogs; applied herbicide to exotic plant species, and removed cattail from ponds.
- Monitored water quality of San Bernardino NWR's endangered fishes ponds; tested turbidity, nitrates, pH, carbon dioxide and dissolved oxygen.
- Assisted Illinois Department of Transportation and Illinois Natural History Survey biologists with prairie and woodland prescribed burns.
- Desert tortoise monitoring for the Mojave Bypass Project (2000) in the southern Mojave desert.